**ArcelorMittal Burns Harbor, LLC.**
Flat Carbon Steel

ArcelorMittal

CERTIFIED MAIL
RETURN RECEIPT REQUESTED
Mr. James Filippini
Mr. Douglas Lamb
Water Division Compliance Branch
United States Environmental Protection Agency, Region V
77 West Jackson Boulevard (WC-15J)
Chicago, Illinois 60604-3590

RECEIVED
SEP 17 2010
Water Enforcement & Compliance Assurance Branch
U.S. EPA Region 5

September 10, 2010
PJ/DW

Subject: Annual Dock Wall Observation and Repair
Consent Decree – Case No. 2:96-CV-96-RL-1
ArcelorMittal Burns Harbor LLC

Dear Messrs. Filippini and Lamb:

Attachment 1 is the summary report of the annual dock wall inspection for 2009. This document summarizes the results of the annual dock wall observation that was conducted on August 14, 2010 by Weaver Boos consultants, LLC., a contractor to ArcelorMittal Burns Harbor, as required by Paragraph 21 of the subject decree.

During the annual observation, ten (10) locations were found along the dock wall with discernible discharges of flowing water. An oral notification regarding these findings was made to Mr. Gerald Golubski (EPA 5 Water Division) and Ms. Susan Prout (EPA 5 Office of Regional Counsel) by T. E. Kirk on August 16, 2010.

All of the locations were found in the coffer dam section of the dock wall. The height above the Lake Michigan level and the estimated flow from each location is noted in the report included as Attachment 1.

Samples were obtained from all locations and submitted to a contract analytical laboratory for nitrogen-ammonia analysis. The results of these analyses are provided in Attachment 2. The results are also summarized in the Attachment 1 table and used to estimate the amount of ammonia discharged, on a daily basis, from these locations.

Digital photographs of each of the locations were also obtained and are provided in Attachment 3.

**ArcelorMittal Burns Harbor, LLC.**
Environmental Mgmt. Dept.
250 W. U.S. Highway 12
Burns Harbor, IN 46304
USA

T +1 219 787 2712
F +1 219 787 4973
www.arcelormittal.com

ArcelorMittal

The sealing of the locations from the harbor side of the dock wall began on September 3, 2010 and was completed on September 10. Photographs of the locations after repair/sealing are provided in Attachment 4.

No one particular cause for the discharges was identified. Because all of the discharges were observed along the coffer dam section of the harbor wall, it is surmised that these concrete cellular revetments were discharging accumulated stormwater runoff that had inadvertently seeped through the caps of these structures. Therefore, the source of the water is not groundwater that is adequately being controlled by the dewatering well system. Based on the ammonia concentrations and estimated flows summarized in Attachment 1, less than one quarter pound of ammonia per day was being discharged to the harbor from all 10 locations. Notwithstanding, Burns Harbor responded as quickly as possible to the identification of the locations in order to timely minimize and/or eliminate any potential impact.

If there are any questions concerning this matter, please contact T. E. Kirk or me at (219) 787-2712.

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein and that I have made a diligent inquiry of those individuals immediately responsible for obtaining the information and that to the best of my knowledge and belief, the information submitted herewith is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Very truly yours,

R. A. Maciel, Manager
Environmental Management Department

Attachments

CC: G. Golubski, EPA Region 5 Water Division (WC-15J)

**ArcelorMittal Burns Harbor, LLC.**
Environmental Mgmt. Dept.
250 W. U.S. Highway 12
Burns Harbor, IN 46304
USA

**T** +1 219 787 2712
**F** +1 219 787 4973
www.arcelormittal.com

ArcelorMittal Burns Harbor, LLC
Annual Dock Wall Observation
Consent Decree – Case No. 2:96-CV-96-RL-1

Attachment 1 – Summary Report of the Annual dock Wall Inspection

ArcelorMittal Burns Harbor, LLC
August 14, 2010 Dock Wall Inspection
Performed by: Weaver Boos Consultants

| ID Number | Height Above Water (feet) | Estimated Flow Rate (Liters/minute) | Estimated Flow (Gal/Min) | Ammonia Concentration* (mg/L) | Ammonia Dischage (Pounds/day) | Date of Repair |
|---|---|---|---|---|---|---|
| 10-1 | 5.0 | .5 | 0.13 | 6.4 | .01 | 09-03-10 |
| 10-2 | 5.0 | .25 | 0.07 | 8.2 | .007 | 09-10-10 |
| 10-3 | 5.0 | .5 | 0.13 | 9.1 | .01 | 09-10-10 |
| 10-4 | 5.0 | 1 | 0.26 | 5.6 | .02 | 09-08-10 |
| 10-5 | 2.0 | 2 | 0.53 | 0.32 | .002 | 09-09-10 |
| 10-6 | 5.0 | 2 | 0.53 | 8.2 | .05 | 09-08-10 |
| 10-7 | 3.0 | 1 | 0.26 | 8.4 | .03 | 09-09-10 |
| 10-8 | 4.0 | 1 | 0.26 | 12 | .04 | 09-08-10 |
| 10-9 | 4.0 | 5 | 1.32 | 1.9 | .03 | 09-07-10 |
| 10-10 | 5.0 | 4 | 1.06 | 0.55 | .007 | 09-09-10 |

**Total Potential Ammonia Discharge (pounds per day) from all locations: 0.20**

* Results reported are the larger of the sample and duplicate analysis.

ArcelorMittal Burns Harbor, LLC
Annual Dock Wall Observation
Consent Decree – Case No. 2:96-CV-96-RL-1

Attachment 2 – Nitrogen Ammonia Analytical Results

Microbac®

August 23, 2010

Arcelor Mittal USA, Inc.
250 W US Highway 12
Burns Harbor, IN 46304-9745

Work Order No.: 10H0653

Re: Dock Water

Dear Teri Kirk:

Microbac Laboratories, Inc. - Chicagoland Division received 20 sample(s) on 8/16/2010 9:50:00AM for the analyses presented in the following report as Work Order 10H0653.

The enclosed results were obtained from and are applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report have been reviewed and meet the applicable project specific and certification specific requirements, unless otherwise noted. A qualifications page is included in this report and lists the programs under which Microbac maintains certification.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories.

We appreciate the opportunity to service your analytical needs. If you have any questions, please feel free to contact us.

Sincerely,
Microbac Laboratories, Inc.

Carey Gadzala

Carey Gadzala
Project Manager

Microbac®

## WORK ORDER SAMPLE SUMMARY

**Date:** *Monday, August 23, 2010*

**Client:** Arcelor Mittal USA, Inc.
**Project:** Dock Water
**Lab Order:** 10H0653

| Lab Sample ID | Client Sample ID | Tag Number | Collection Date | Date Received |
|---|---|---|---|---|
| 10H0653-01 | 10-1 | | 08/14/2010 09:37 | 8/16/2010 9:50:00AM |
| 10H0653-02 | 10-2 | | 08/14/2010 10:00 | 8/16/2010 9:50:00AM |
| 10H0653-03 | 10-3 | | 08/14/2010 10:15 | 8/16/2010 9:50:00AM |
| 10H0653-04 | 10-4 | | 08/14/2010 10:25 | 8/16/2010 9:50:00AM |
| 10H0653-05 | 10-5 | | 08/14/2010 10:35 | 8/16/2010 9:50:00AM |
| 10H0653-06 | 10-6 | | 08/14/2010 10:42 | 8/16/2010 9:50:00AM |
| 10H0653-07 | 10-7 | | 08/14/2010 10:45 | 8/16/2010 9:50:00AM |
| 10H0653-08 | 10-8 | | 08/14/2010 11:04 | 8/16/2010 9:50:00AM |
| 10H0653-09 | 10-9 | | 08/14/2010 11:12 | 8/16/2010 9:50:00AM |
| 10H0653-10 | 10-10 | | 08/14/2010 11:20 | 8/16/2010 9:50:00AM |
| 10H0653-11 | 10-1A | | 08/14/2010 09:37 | 8/16/2010 9:50:00AM |
| 10H0653-12 | 10-2A | | 08/14/2010 10:00 | 8/16/2010 9:50:00AM |
| 10H0653-13 | 10-3A | | 08/14/2010 10:15 | 8/16/2010 9:50:00AM |
| 10H0653-14 | 10-4A | | 08/14/2010 10:25 | 8/16/2010 9:50:00AM |
| 10H0653-15 | 10-5A | | 08/14/2010 10:35 | 8/16/2010 9:50:00AM |
| 10H0653-16 | 10-6A | | 08/14/2010 10:42 | 8/16/2010 9:50:00AM |
| 10H0653-17 | 10-7A | | 08/14/2010 10:45 | 8/16/2010 9:50:00AM |
| 10H0653-18 | 10-8A | | 08/14/2010 11:04 | 8/16/2010 9:50:00AM |
| 10H0653-19 | 10-9A | | 08/14/2010 11:12 | 8/16/2010 9:50:00AM |
| 10H0653-20 | 10-10A | | 08/14/2010 11:20 | 8/16/2010 9:50:00AM |

Microbac

# Analytical Results

**Date:** *Monday, August 23, 2010*

| | | | |
|---|---|---|---|
| **Client:** | Arcelor Mittal USA, Inc. | | |
| **Client Project:** | Dock Water | | |
| **Client Sample ID:** | 10-1 | **Work Order/ID:** | 10H0653-01 |
| **Sample Description:** | | **Sampled:** | 08/14/2010 9:37 |
| **Matrix:** | Aqueous | **Received:** | 08/16/2010 9:50 |

| Analyses | AT | Result | RL | Qual | Units | DF | Analyzed |
|---|---|---|---|---|---|---|---|
| | | Method: **EPA 350.1 Rev 2.0** | | | | | Analyst: **ARCEL** |
| **Nitrogen, Ammonia as N** | | Prep Method: **Aqueous Ammonia Distillation** | | | | | Prep Date/Time: **08/18/2010 05:45** |
| Nitrogen, Ammonia (As N) | A | **6.3** | 0.10 | | mg/L | 1 | 08/18/2010 9:50 |

Microbac

# Analytical Results

**Date:** *Monday, August 23, 2010*

**Client:** Arcelor Mittal USA, Inc.
**Client Project:** Dock Water
**Client Sample ID:** 10-2
**Sample Description:**
**Matrix:** Aqueous

**Work Order/ID:** 10H0653-02
**Sampled:** 08/14/2010 10:00
**Received:** 08/16/2010 9:50

| Analyses | AT | Result | RL | Qual | Units | DF | Analyzed |
|---|---|---|---|---|---|---|---|
| | | Method: **EPA 350.1 Rev 2.0** | | | | | Analyst: **ARCEL** |
| **Nitrogen, Ammonia as N** | | Prep Method: **Aqueous Ammonia Distillation** | | | | | Prep Date/Time: **08/18/2010 05:45** |
| Nitrogen, Ammonia (As N) | A | ***8.0*** | 0.10 | | mg/L | 1 | 08/18/2010 9:52 |

Microbac

# Analytical Results

**Date:** *Monday, August 23, 2010*

**Client:** Arcelor Mittal USA, Inc.
**Client Project:** Dock Water
**Client Sample ID:** 10-3
**Sample Description:**
**Matrix:** Aqueous

**Work Order/ID:** 10H0653-03
**Sampled:** 08/14/2010 10:15
**Received:** 08/16/2010 9:50

| Analyses | AT | Result | RL | Qual | Units | DF | Analyzed |
|---|---|---|---|---|---|---|---|
| | | Method: **EPA 350.1 Rev 2.0** | | | | | Analyst: **ARCEL** |
| **Nitrogen, Ammonia as N** | | Prep Method: **Aqueous Ammonia Distillation** | | | | | Prep Date/Time: **08/18/2010 05:45** |
| Nitrogen, Ammonia (As N) | A | *8.1* | 0.10 | | mg/L | 1 | 08/18/2010 9:54 |

Microbac

# Analytical Results

**Date:** *Monday, August 23, 2010*

**Client:** Arcelor Mittal USA, Inc.
**Client Project:** Dock Water
**Client Sample ID:** 10-4
**Sample Description:**
**Matrix:** Aqueous

**Work Order/ID:** 10H0653-04
**Sampled:** 08/14/2010 10:25
**Received:** 08/16/2010 9:50

| Analyses | AT | Result | RL | Qual | Units | DF | Analyzed |
|---|---|---|---|---|---|---|---|
| | | Method: **EPA 350.1 Rev 2.0** | | | | | Analyst: **ARCEL** |
| **Nitrogen, Ammonia as N** | | Prep Method: **Aqueous Ammonia Distillation** | | | | | Prep Date/Time: **08/19/2010 06:45** |
| Nitrogen, Ammonia (As N) | A | *5.6* | 0.10 | | mg/L | 1 | 08/19/2010 10:51 |

Microbac®

# Analytical Results

**Date:** *Monday, August 23, 2010*

**Client:** Arcelor Mittal USA, Inc.
**Client Project:** Dock Water
**Client Sample ID:** 10-5
**Sample Description:**
**Matrix:** Aqueous

**Work Order/ID:** 10H0653-05
**Sampled:** 08/14/2010 10:35
**Received:** 08/16/2010 9:50

| Analyses | AT | Result | RL | Qual | Units | DF | Analyzed |
|---|---|---|---|---|---|---|---|
| | | Method: **EPA 350.1 Rev 2.0** | | | | | Analyst: **ARCEL** |
| **Nitrogen, Ammonia as N** | | Prep Method: **Aqueous Ammonia Distillation** | | | | | Prep Date/Time: **08/19/2010 06:45** |
| Nitrogen, Ammonia (As N) | A | ***0.29*** | 0.10 | | mg/L | 1 | 08/19/2010 10:53 |

Microbac®

# Analytical Results

**Date:** *Monday, August 23, 2010*

| | | | |
|---|---|---|---|
| **Client:** | Arcelor Mittal USA, Inc. | | |
| **Client Project:** | Dock Water | | |
| **Client Sample ID:** | 10-6 | **Work Order/ID:** | 10H0653-06 |
| **Sample Description:** | | **Sampled:** | 08/14/2010 10:42 |
| **Matrix:** | Aqueous | **Received:** | 08/16/2010 9:50 |

| *Analyses* | AT | Result | RL | Qual | Units | DF | Analyzed |
|---|---|---|---|---|---|---|---|
| | | Method: **EPA 350.1 Rev 2.0** | | | | | Analyst: **ARCEL** |
| **Nitrogen, Ammonia as N** | | Prep Method: **Aqueous Ammonia Distillation** | | | | | Prep Date/Time: **08/19/2010 06:45** |
| Nitrogen, Ammonia (As N) | A | *8.2* | 0.10 | | mg/L | 1 | 08/19/2010 10:59 |

Microbac®

# Analytical Results

**Date:** *Monday, August 23, 2010*

**Client:** Arcelor Mittal USA, Inc.
**Client Project:** Dock Water
**Client Sample ID:** 10-7
**Sample Description:**
**Matrix:** Aqueous

**Work Order/ID:** 10H0653-07
**Sampled:** 08/14/2010 10:45
**Received:** 08/16/2010 9:50

| Analyses | AT | Result | RL | Qual | Units | DF | Analyzed |
|---|---|---|---|---|---|---|---|
| | | Method: EPA 350.1 Rev 2.0 | | | | | Analyst: ARCEL |
| **Nitrogen, Ammonia as N** | | Prep Method: Aqueous Ammonia Distillation | | | | | Prep Date/Time: 08/19/2010 06:45 |
| Nitrogen, Ammonia (As N) | A | 8.4 | 0.10 | | mg/L | 1 | 08/19/2010 11:01 |

Microbac

# Analytical Results

**Date:** *Monday, August 23, 2010*

**Client:** Arcelor Mittal USA, Inc.
**Client Project:** Dock Water
**Client Sample ID:** 10-8
**Sample Description:**
**Matrix:** Aqueous

**Work Order/ID:** 10H0653-08
**Sampled:** 08/14/2010 11:04
**Received:** 08/16/2010 9:50

| Analyses | AT | Result | RL | Qual | Units | DF | Analyzed |
|---|---|---|---|---|---|---|---|
| | | Method: **EPA 350.1 Rev 2.0** | | | | | Analyst: **ARCEL** |
| **Nitrogen, Ammonia as N** | | Prep Method: **Aqueous Ammonia Distillation** | | | | | Prep Date/Time: **08/19/2010 06:45** |
| Nitrogen, Ammonia (As N) | A | *12* | 0.10 | | mg/L | 1 | 08/19/2010 11:03 |

Microbac®

# Analytical Results

**Date:** *Monday, August 23, 2010*

**Client:** Arcelor Mittal USA, Inc.
**Client Project:** Dock Water
**Client Sample ID:** 10-9
**Sample Description:**
**Matrix:** Aqueous

**Work Order/ID:** 10H0653-09
**Sampled:** 08/14/2010 11:12
**Received:** 08/16/2010 9:50

| Analyses | AT | Result | RL | Qual | Units | DF | Analyzed |
|---|---|---|---|---|---|---|---|
| | | Method: **EPA 350.1 Rev 2.0** | | | | | Analyst: **ARCEL** |
| **Nitrogen, Ammonia as N** | | Prep Method: **Aqueous Ammonia Distillation** | | | | | Prep Date/Time: **08/19/2010 06:45** |
| Nitrogen, Ammonia (As N) | A | *1.9* | 0.10 | | mg/L | 1 | 08/19/2010 11:05 |

Microbac®

# Analytical Results

**Date:** *Monday, August 23, 2010*

**Client:** Arcelor Mittal USA, Inc.
**Client Project:** Dock Water
**Client Sample ID:** 10-10
**Sample Description:**
**Matrix:** Aqueous

**Work Order/ID:** 10H0653-10
**Sampled:** 08/14/2010 11:20
**Received:** 08/16/2010 9:50

| Analyses | AT | Result | RL | Qual | Units | DF | Analyzed |
|---|---|---|---|---|---|---|---|
| | | Method: EPA 350.1 Rev 2.0 | | | | | Analyst: ARCEL |
| **Nitrogen, Ammonia as N** | | Prep Method: Aqueous Ammonia Distillation | | | | | Prep Date/Time: 08/19/2010 06:45 |
| Nitrogen, Ammonia (As N) | A | *0.52* | 0.10 | | mg/L | 1 | 08/19/2010 11:10 |

Microbac

# Analytical Results

**Date:** *Monday, August 23, 2010*

**Client:** Arcelor Mittal USA, Inc.
**Client Project:** Dock Water
**Client Sample ID:** 10-1A
**Sample Description:**
**Matrix:** Aqueous

**Work Order/ID:** 10H0653-11
**Sampled:** 08/14/2010 9:37
**Received:** 08/16/2010 9:50

| Analyses | AT | Result | RL | Qual | Units | DF | Analyzed |
|---|---|---|---|---|---|---|---|
| | | Method: **EPA 350.1 Rev 2.0** | | | | | Analyst: **ARCEL** |
| **Nitrogen, Ammonia as N** | | Prep Method: **Aqueous Ammonia Distillation** | | | | | Prep Date/Time: **08/19/2010 06:45** |
| Nitrogen, Ammonia (As N) | A | 6.4 | 0.10 | | mg/L | 1 | 08/19/2010 11:16 |

Microbac®

# Analytical Results

**Date:** *Monday, August 23, 2010*

**Client:** Arcelor Mittal USA, Inc.
**Client Project:** Dock Water
**Client Sample ID:** 10-2A
**Sample Description:**
**Matrix:** Aqueous

**Work Order/ID:** 10H0653-12
**Sampled:** 08/14/2010 10:00
**Received:** 08/16/2010 9:50

| Analyses | AT | Result | RL | Qual | Units | DF | Analyzed |
|---|---|---|---|---|---|---|---|
| | | Method: **EPA 350.1 Rev 2.0** | | | | | Analyst: **ARCEL** |
| **Nitrogen, Ammonia as N** | | Prep Method: **Aqueous Ammonia Distillation** | | | | | Prep Date/Time: **08/19/2010 06:45** |
| Nitrogen, Ammonia (As N) | A | *8.2* | 0.10 | | mg/L | 1 | 08/19/2010 11:18 |

Microbac

# Analytical Results

**Date:** *Monday, August 23, 2010*

| | | | |
|---|---|---|---|
| **Client:** | Arcelor Mittal USA, Inc. | | |
| **Client Project:** | Dock Water | | |
| **Client Sample ID:** | 10-3A | **Work Order/ID:** | 10H0653-13 |
| **Sample Description:** | | **Sampled:** | 08/14/2010 10:15 |
| **Matrix:** | Aqueous | **Received:** | 08/16/2010 9:50 |

| Analyses | AT | Result | RL | Qual | Units | DF | Analyzed |
|---|---|---|---|---|---|---|---|
| | | Method: **EPA 350.1 Rev 2.0** | | | | | Analyst: **ARCEL** |
| **Nitrogen, Ammonia as N** | | Prep Method: **Aqueous Ammonia Distillation** | | | | | Prep Date/Time: **08/20/2010 05:45** |
| Nitrogen, Ammonia (As N) | A | *9.1* | 0.10 | | mg/L | 1 | 08/20/2010 8:40 |

Microbac

# Analytical Results

**Date:** *Monday, August 23, 2010*

**Client:** Arcelor Mittal USA, Inc.
**Client Project:** Dock Water
**Client Sample ID:** 10-4A
**Sample Description:**
**Matrix:** Aqueous

**Work Order/ID:** 10H0653-14
**Sampled:** 08/14/2010 10:25
**Received:** 08/16/2010 9:50

| Analyses | AT | Result | RL | Qual | Units | DF | Analyzed |
|---|---|---|---|---|---|---|---|
| | | Method: **EPA 350.1 Rev 2.0** | | | | | Analyst: **ARCEL** |
| **Nitrogen, Ammonia as N** | | Prep Method: **Aqueous Ammonia Distillation** | | | | | Prep Date/Time: **08/20/2010 05:45** |
| Nitrogen, Ammonia (As N) | A | *5.6* | 0.10 | | mg/L | 1 | 08/20/2010 8:46 |

Microbac®

# Analytical Results

**Date:** *Monday, August 23, 2010*

| | | | |
|---|---|---|---|
| **Client:** | Arcelor Mittal USA, Inc. | | |
| **Client Project:** | Dock Water | | |
| **Client Sample ID:** | 10-5A | **Work Order/ID:** | 10H0653-15 |
| **Sample Description:** | | **Sampled:** | 08/14/2010 10:35 |
| **Matrix:** | Aqueous | **Received:** | 08/16/2010 9:50 |

| Analyses | AT | Result | RL | Qual | Units | DF | Analyzed |
|---|---|---|---|---|---|---|---|
| | | Method: **EPA 350.1 Rev 2.0** | | | | | Analyst: **ARCEL** |
| **Nitrogen, Ammonia as N** | | Prep Method: **Aqueous Ammonia Distillation** | | | | | Prep Date/Time: **08/20/2010 05:45** |
| Nitrogen, Ammonia (As N) | A | ***0.32*** | 0.10 | | mg/L | 1 | 08/20/2010 8:48 |

Microbac

# Analytical Results

**Date:** *Monday, August 23, 2010*

**Client:** Arcelor Mittal USA, Inc.
**Client Project:** Dock Water
**Client Sample ID:** 10-6A
**Sample Description:**
**Matrix:** Aqueous

**Work Order/ID:** 10H0653-16
**Sampled:** 08/14/2010 10:42
**Received:** 08/16/2010 9:50

| Analyses | AT | Result | RL | Qual | Units | DF | Analyzed |
|---|---|---|---|---|---|---|---|
| | | Method: **EPA 350.1 Rev 2.0** | | | | | Analyst: **ARCEL** |
| **Nitrogen, Ammonia as N** | | Prep Method: **Aqueous Ammonia Distillation** | | | | | Prep Date/Time: **08/20/2010 05:45** |
| Nitrogen, Ammonia (As N) | A | *8.1* | 0.10 | | mg/L | 1 | 08/20/2010 8:50 |

Microbac®

# Analytical Results

**Date:** *Monday, August 23, 2010*

**Client:** Arcelor Mittal USA, Inc.
**Client Project:** Dock Water
**Client Sample ID:** 10-7A
**Sample Description:**
**Matrix:** Aqueous

**Work Order/ID:** 10H0653-17
**Sampled:** 08/14/2010 10:45
**Received:** 08/16/2010 9:50

| Analyses | AT | Result | RL | Qual | Units | DF | Analyzed |
|---|---|---|---|---|---|---|---|
| | | Method: **EPA 350.1 Rev 2.0** | | | | | Analyst: **ARCEL** |
| **Nitrogen, Ammonia as N** | | Prep Method: **Aqueous Ammonia Distillation** | | | | | Prep Date/Time: **08/20/2010 08:45** |
| Nitrogen, Ammonia (As N) | A | *8.4* | 0.10 | | mg/L | 1 | 08/20/2010 8:52 |

Microbac®

# Analytical Results

**Date:** *Monday, August 23, 2010*

**Client:** Arcelor Mittal USA, Inc.
**Client Project:** Dock Water
**Client Sample ID:** 10-8A
**Sample Description:**
**Matrix:** Aqueous

**Work Order/ID:** 10H0653-18
**Sampled:** 08/14/2010 11:04
**Received:** 08/16/2010 9:50

| Analyses | AT | Result | RL | Qual | Units | DF | Analyzed |
|---|---|---|---|---|---|---|---|
| | | Method: **EPA 350.1 Rev 2.0** | | | | | Analyst: **ARCEL** |
| **Nitrogen, Ammonia as N** | | Prep Method: **Aqueous Ammonia Distillation** | | | | | Prep Date/Time: **08/20/2010 05:45** |
| Nitrogen, Ammonia (As N) | A | *12* | 0.10 | | mg/L | 1 | 08/20/2010 8:54 |

Microbac

## Analytical Results

**Date:** *Monday, August 23, 2010*

**Client:** Arcelor Mittal USA, Inc.
**Client Project:** Dock Water
**Client Sample ID:** 10-9A
**Sample Description:**
**Matrix:** Aqueous

**Work Order/ID:** 10H0653-19
**Sampled:** 08/14/2010 11:12
**Received:** 08/16/2010 9:50

| Analyses | AT | Result | RL | Qual | Units | DF | Analyzed |
|---|---|---|---|---|---|---|---|
| | | Method: **EPA 350.1 Rev 2.0** | | | | | Analyst: **ARCEL** |
| **Nitrogen, Ammonia as N** | | Prep Method: **Aqueous Ammonia Distillation** | | | | | Prep Date/Time: **08/23/2010 05:10** |
| Nitrogen, Ammonia (As N) | A | *1.6* | 0.10 | | mg/L | 1 | 08/23/2010 10:06 |

Microbac®

# Analytical Results

**Date:** *Monday, August 23, 2010*

**Client:** Arcelor Mittal USA, Inc.
**Client Project:** Dock Water
**Client Sample ID:** 10-10A
**Sample Description:**
**Matrix:** Aqueous

**Work Order/ID:** 10H0653-20
**Sampled:** 08/14/2010 11:20
**Received:** 08/16/2010 9:50

| Analyses | AT | Result | RL | Qual | Units | DF | Analyzed |
|---|---|---|---|---|---|---|---|
| | | Method: **EPA 350.1 Rev 2.0** | | | | | Analyst: **ARCEL** |
| **Nitrogen, Ammonia as N** | | Prep Method: **Aqueous Ammonia Distillation** | | | | | Prep Date/Time: **08/23/2010 05:10** |
| Nitrogen, Ammonia (As N) | A | *0.55* | 0.10 | | mg/L | 1 | 08/23/2010 10:08 |

Microbac®

**FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)**

| | | |
|---|---|---|
| NA | = | Not Analyzed |
| mg/L | = | Milligrams per Liter (ppm) |
| mg/Kg | = | Milligrams per Kilogram (ppm) |
| U | = | Undetected |
| J | = | Analyte concentration detected between RL and MDL (Metals / Organics) |
| B | = | Detected in the associated method Blank at a concentration above the routine PQL/RL |
| D | = | Dilution performed on sample |
| ND | = | Not Detected at the Reporting Limit (or the Method Detection Limit, if used) |
| E | = | Value above quantitation range |
| H | = | Analyte was prepared and/or analyzed outside of the analytical method holding time |
| I | = | Matrix Interference |
| R | = | RPD outside accepted recovery limits |
| S | = | Spike recovery outside recovery limits |
| Surr | = | Surrogate |
| DF | = | Dilution Factor |

**ANALYTE TYPES**

| | | |
|---|---|---|
| A,B | = | Target Analyte |
| I | = | Internal Standard |
| M | = | Summation Analyte |
| S | = | Surrogate |
| T | = | Tentatively Identified Compound (TIC, concentration estimated) |

**QC SAMPLE IDENTIFICATIONS**

| | | | | | |
|---|---|---|---|---|---|
| MBLK | = | Method Blank | ICSA | = | Interference Check Standard "A" |
| DUP | = | Method Duplicate | ICSAB | = | Interference Check Standard "AB" |
| LCS | = | Laboratory Control Sample | LCSD | = | Laboratory Control Sample Duplicate |
| BS | = | Method Blank Spike | BSD | = | Method Blank Spike Duplicate |
| MS | = | Matrix Spike | MSD | = | Matrix Spike Duplicate |
| ICB | = | Initial Calibration Blank | CCB | = | Continuing Calibration Blank |
| ICV | = | Initial Calibration Verification | CCV | = | Continuing Calibration Verification |
| PDS | = | Post Digestion Spike | SD | = | Serial Dilution |
| OPR | = | Ongoing Precision and Recovery Standard | | | |

**CERTIFICATIONS**

*Below is a list of certifications maintained by the Microbac Merrillville Laboratory. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. Complete lists of individual analytes pursuant to each certification below are available upon request.*

Illinois EPA for the analysis wastewater and solid waste in accordance with the requirements of the National Environmental Laboratory Accreditation Program [NELAP] (accreditation #100435)
Illinois Department of Public Health for the microbiological analysis of drinking water (registry #1755266)
Indiana DEM approved support laboratory for solid waste and wastewater analyses
Indiana SDH for the chemical analysis of drinking water (lab #C-45-03)
Indiana SDH for the microbiological analysis of drinking water (lab #M-45-8)
Kentucky DEP for the chemical analysis of drinking water (lab #90147)
Kentucky EPPC for the analysis of samples applicable to the Underground Storage Tank program (lab #75)
*New York SDH for the chemical analysis of air and emissions (lab #11909)
North Carolina DENR for the environmental analysis for NPDES effluent, surface water, groundwater, and pretreatment regulations(certificate #597)
Tennessee DEC for the chemical analysis of drinking water (lab #04017)
Wisconsin DNR for the chemical analysis of wastewater and solid waste (lab #998036710)

Microbac®

## COOLER INSPECTION

**Date:** Monday, August 23, 2010

Client Name: Arcelor Mittal USA, Inc.

Date/Time Received: 08/16/2010 09:50

Work Order Number: 10H0653

Received by: Dave Bryant

Checklist completed by: 8/16/2010 10:23:00AM | Ken Smith

Reviewed by: 8/16/2010 | CAG

Carrier Name: Client Delivered

Cooler ID: Default Cooler

Container/Temp Blank Temperature: 6.00°C

| | | | | | | |
|---|---|---|---|---|---|---|
| After-Hour Arrival? | Yes | ☐ | No | ☑ | | |
| Shipping container/cooler in good condition? | Yes | ☑ | No | ☐ | Not Present | ☐ |
| Custody seals intact on shipping container/cooler? | Yes | ☐ | No | ☐ | Not Present | ☑ |
| Custody seals intact on sample containers? | Yes | ☐ | No | ☐ | Not Present | ☑ |
| COC present? | Yes | ☑ | No | ☐ | | |
| COC included sufficient client identification? | Yes | ☑ | No | ☐ | | |
| COC included sufficient sample collector information? | Yes | ☑ | No | ☐ | | |
| COC included a sample description? | Yes | ☑ | No | ☐ | | |
| COC agrees with sample labels? | Yes | ☑ | No | ☐ | | |
| COC identified the appropriate matrix? | Yes | ☑ | No | ☐ | | |
| COC included date of collection? | Yes | ☑ | No | ☐ | | |
| COC included time of collection? | Yes | ☑ | No | ☐ | | |
| COC identified the appropriate number of containers? | Yes | ☑ | No | ☐ | | |
| Samples in proper container/bottle? | Yes | ☑ | No | ☐ | | |
| Sample containers intact? | Yes | ☑ | No | ☐ | | |
| Sufficient sample volume for indicated test? | Yes | ☑ | No | ☐ | | |
| All samples received within holding time? | Yes | ☑ | No | ☐ | | |
| If the samples are preserved, are the preservatives identified? | Yes | ☑ | No | ☐ | | |
| COC included the requested analyses? | Yes | ☑ | No | ☐ | | |

If No, adjusted by? _____

| | | | | | | |
|---|---|---|---|---|---|---|
| COC signed when relinquished and received? | Yes | ☑ | No | ☐ | | |
| Samples received on ice? | Yes | ☑ | No | ☐ | | |
| Samples properly preserved? | Yes | ☑ | No | ☐ | | |
| Voa vials for aqueous samples have zero headspace? | Yes | ☐ | No | ☐ | No VOA vials submitted | ☑ |

Cooler Comments:

**ANY "NO" EVALUATION (excluding After-Hour Receipt) REQUIRES CLIENT NOTIFICATION.**

Microbac®

| Sample ID | Client Sample ID | Comments |
|---|---|---|
| 10H0653-01 | 10-1 | |
| 10H0653-02 | 10-2 | |
| 10H0653-03 | 10-3 | |
| 10H0653-04 | 10-4 | |
| 10H0653-05 | 10-5 | |
| 10H0653-06 | 10-6 | |
| 10H0653-07 | 10-7 | |
| 10H0653-08 | 10-8 | |
| 10H0653-09 | 10-9 | |
| 10H0653-10 | 10-10 | |
| 10H0653-11 | 10-1A | |
| 10H0653-12 | 10-2A | |
| 10H0653-13 | 10-3A | |
| 10H0653-14 | 10-4A | |
| 10H0653-15 | 10-5A | |
| 10H0653-16 | 10-6A | |
| 10H0653-17 | 10-7A | |
| 10H0653-18 | 10-8A | |
| 10H0653-19 | 10-9A | |
| 10H0653-20 | 10-10A | |

Microbac®

Samples Submitted to:
[X] 250 West 84th Drive, Merrillville, IN 46410, Tel: 219-769-8378, Fax: 219-769-1664
[ ] 5713 West 85th Street, Indianapolis, IN 46278, Tel: 317-872-1375, Fax: 317-872-1379

# Chain of Custody Record

Number 98041

Instructions on back

10H0653 Carey Gadzala ArcelorMittal - Burns Harbor, IN Monday 08/16/2010

| | | | |
|---|---|---|---|
| Client Name ARCELOR MITTAL | Project DOCK WALL | Turnaround Time | Report Type |
| Address 250 W. US HWY 12 | Location EAST HARBOR | [X] Routine (7 working days) | [ ] Results Only [ ] Level II |
| City, State, Zip BURNS HARBOR IN 46304 | PO # | [ ] RUSH* (notify lab) | [ ] Level III [ ] Level III CLP-like |
| Contact TERI KIRK | Compliance Monitoring? [X] Yes(1) [ ] No | (needed by) | [ ] Level IV [ ] Level IV CLP-like |
| Telephone # 219-787-4643 | (1)Agency/Program USEPA | | [ ] EDD |

Sampled by (PRINT) STEVEN STANFORD Sampler Signature [signature] Sampler Phone # 219-808-3609

Send Report via [ ] Mail [ ] Telephone [ ] Fax (fax #) [X] e-mail (address) Theresa.Kirk@arcelorMittal.com

* Matrix Types: Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify) sstanford@weaverboos.com

** Preservative Types: (1) HNO3, (2) H2SO4, (3) HCl, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane, (U) Unpreserved

| Client Sample ID | Matrix* | Grab | Composite | Filtered | Date Collected | Time Collected | No. of Containers | Requested Analyses → Preservative Types ** | Ammonia | | | | | | | | For Lab Use Only 10H0653 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10-1 | GW | X | | N | 8-14-10 | 0937 | 1 | $H_2SO_4$ | X | | | | | | | | 01 |
| 10-2 | | | | | | 1000 | | | | | | | | | | | 02 |
| 10-3 | | | | | | 1015 | | | | | | | | | | | 03 |
| 10-4 | | | | | | 1025 | | | | | | | | | | | 04 |
| 10-5 | | | | | | 1035 | | | | | | | | | | | 05 |
| 10-6 | | | | | | 1042 | | | | | | | | | | | 06 |
| 10-7 | | | | | | 1045 | | | | | | | | | | | 07 |
| 10-8 | | | | | | 1104 | | | | | | | | | | | 08 |
| 10-9 | | | | | | 1112 | | | | | | | | | | | 09 |
| 10-10 | ↓ | ↓ | | ↓ | ↓ | 1120 | ↓ | ↓ | ↓ | | | | | | | | 10 |
| | | | | | | | | | | | | | | | | | |

Possible Hazard Identification [ ] Hazardous [X] Non-Hazardous [ ] Radioactive

Sample Disposition [X] Dispose as appropriate [ ] Return [ ] Archive

Comments: CONTACT TERI KIRK FOR AUTHORIZATION. COPY OF REPORT TO STEVEN STANFORD

Sample temperature upon receipt in degrees C =

| Relinquished By (signature) | Date/Time | Received By (signature) | Date/Time |
|---|---|---|---|
| [signature] | 8/16/2010 0850 | | |
| Relinquished By (signature) | Date/Time | Received By (signature) | Date/Time |
| [signature] | | | |
| Relinquished By (signature) | Date/Time | Received for Lab By (signature) | Date/Time |
| | | [signature] | 8/16/10 0850 |

rev. 11/04/04

Microbac®

Samples Submitted to:
[ ] 250 West 84th Drive, Merrillville, IN 46410, Tel: 219-769-8378, Fax: 219-769-1664
[ ] 5713 West 85th Street, Indianapolis, IN 46278, Tel: 317-872-1375, Fax: 317-872-1379

**Chain of Custody Record**

**Number** 98042

*Instructions on back*

| | | | |
|---|---|---|---|
| **Client Name** ARCELOR MITTAL | **Project** DOCK WALL | **Turnaround Time** | **Report Type** |
| **Address** 250 W US HWY 12 | **Location** EAST HARBOR | [X] Routine (7 working days) | [ ] Results Only [ ] Level II |
| **City, State, Zip** BURNS HARBOR IN 46304 | **PO #** | [ ] RUSH* (notify lab) | [ ] Level III [ ] Level III CLP-like |
| **Contact** TERI KIRK | Compliance Monitoring? [X] Yes(1) [ ] No | _____ (needed by) | [ ] Level IV [ ] Level IV CLP-like |
| **Telephone #** 219-787-4643 | (1)Agency/Program USEPA | | [ ] EDD |

**Sampled by (PRINT)** STEVEN STANFORD **Sampler Signature** [signature] **Sampler Phone #** 219-808-3608

**Send Report via** [ ] Mail [ ] Telephone [ ] Fax (fax #) [ ] e-mail (address) Theresa.Kirk@arcelormittal.com

* **Matrix Types:** Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify) Stanford@weaverboos.com

** **Preservative Types:** (1) HNO3, (2) H2SO4, (3) HCl, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane, (U) Unpreserved

| Client Sample ID | Matrix* | Grab | Composite | Filtered | Date Collected | Time Collected | No. of Containers | Requested Analyses → Preservative Types ** | AMMONIA | | | | | | | | For Lab Use Only |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10-1A | SW | X | | N | 8-14-10 | 0937 | 1 | $H_2SO_4$ | X | | | | | | | | 11 |
| 10-2A | " | " | | " | | 1000 | " | " | " | | | | | | | | 12 |
| 10-3A | " | " | | " | | 1015 | " | " | " | | | | | | | | 03 13 |
| 10-4A | " | " | | " | | 1025 | " | " | " | | | | | | | | 04 14 |
| 10-5A | " | " | | " | | 1035 | " | " | " | | | | | | | | 05 15 |
| 10-6A | " | " | | " | | 042 | " | " | " | | | | | | | | 06 16 |
| 10-7A | " | " | | " | | 1045 | " | " | " | | | | | | | | 07 17 |
| 10-8A | " | " | | " | | 1104 | " | " | " | | | | | | | | 08 18 |
| 10-9A | " | " | | " | | 1112 | " | " | " | | | | | | | | 09 19 |
| 10-10A | " | " | | " | | 1120 | " | " | " | | | | | | | | 20 |
| | | | | | | | | | | | | | | | | | |

**Possible Hazard Identification** [ ] Hazardous [ ] Non-Hazardous [ ] Radioactive **Sample Disposition** [ ] Dispose as appropriate [ ] Return [ ] Archive

**Comments**
CONTACT TERI KIRK FOR AUTHORIZATION
2 COPY OF REPORT TO STEVEN STANFORD

**Sample temperature upon receipt in degrees C =**

| Relinquished By (signature) | Date/Time | Received By (signature) | Date/Time |
|---|---|---|---|
| [signature] | 8/16/2010 0950 | | |
| Relinquished By (signature) | Date/Time | Received By (signature) | Date/Time |
| | | | |
| Relinquished By (signature) | Date/Time | Received for Lab By (signature) | Date/Time |
| | | [signature] | 8/16 0950 |

rev. 11/04/04